

Authors

Bertram A. Calhoun

B.S., University of Manitoba, 1947; M.A., Wesleyan University, 1948; Ph.D., Massachusetts Institute of Technology, 1953. Joined IBM at the Poughkeepsie Research Laboratory in 1956 and is presently engaged in research on ferrimagnetic oxides. Member of the American Physical Society and Sigma Xi.

Henderson Cole

B.S., Massachusetts Institute of Technology, 1950, and Ph.D. in Physics, 1952. Fulbright scholar, Collège de France, Paris, 1952. Instructor in Physics, MIT, 1953-55. His field of work is x-ray diffraction, thermal motion of atoms and interatomic forces in crystals at the IBM Research Center, Poughkeepsie. Member of Physical Society and of American Crystallographic Association.

A. J. W. Duijvestijn

Electrotechnisch Ingenieur, Technical University, Delft, The Netherlands, 1950; Doctoraal Examen, Mathematics and Physics, Cum Laude, University of Amsterdam, 1955. Worked at the Mathematical Centre in Amsterdam in the Computation Department from 1953-1956. Joined Philips Research Laboratories, Eindhoven, The Netherlands, in 1956 and stayed as a resident visitor at the IBM Research Laboratory in Poughkeepsie from November, 1957 to May, 1958.

Paul Erdős

Diploma in Physics, 1953; Doctor of Natural Sciences, 1957, Swiss Federal Institute of Technology. Joined IBM in 1957 at the Zurich Research Laboratory, working on optical problems connected with the luminescent phosphors project. Was teaching assistant and research associate in Nuclear Physics at the Swiss Federal Institute of Technology, 1953-1957. Is presently Visiting Professor at the Physics Department of Florida State University. Member of the Swiss Physical Society and American Physical Society.

Lloyd P. Hunter

B.A., College of Wooster, 1939; B.S., Massachusetts Institute of Technology, 1939; M.S., Carnegie Institute of Technology, 1940; D.Sc., Carnegie Institute of Technology, 1942. Worked on the radiation effects in solids at the Oak Ridge National Laboratory and was manager of the Solid State Electronics Section of the Electronics and Nuclear Physics Department of the Westinghouse Electric Corporation. Joined IBM in 1951 as a Project Engineer in charge of transistor research and development and is presently the Resident Manager of the Poughkeepsie Research Laboratory. Fellow of the American Physical Society, and a Senior Member of the IRE;

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Manfred Kochen

B.S., 1950, Massachusetts Institute of Technology; M.A., 1951, Ph.D., 1955, Columbia University, Applied Mathematics. Previously with Biot and Arnold, 1950-1952; Lecturer at Columbia, 1953; Institute for Advanced Study and consultant with Paul Rosenberg Associates, 1953-1955; Ford Foundation Fellow at Harvard, 1955-1956. Joined IBM Information Research Department in 1956 at Yorktown Heights, N. Y., staff mathematician in Physical Information Theory and Theory of Assemblies Group. Principal interests are mathematical theory of organized systems, communication theory and models for learning in groups and individuals. Currently a member of the Research Technical Staff. Member of American Mathematical, Physical and Statistical Societies.

Ervand George Kogbetliantz

Sorbonne University, Paris: Docteur Es Sciences, April 1923. Joined IBM in June 1952 at the New York Data Processing Center and has been engaged as a consulting mathematician in (a) interpretation of gravimetric and magnetic anomalies with the aid of the electronic computing equipment; (b) research on shortest mathematical procedures for computing elementary functions with computers, et cetera. He was awarded the Order of Scientific Merit (Nshan Elmi) by the Iranian Government in 1938 for the organization of Teheran University and for the teaching of Celestial Mechanics, Applied Geophysics and various branches of higher mathematics during 1933-1938. Taught mathematics in various universities and worked as consulting mathematician during 1945 and 1946 at Standard Oil Development Company in New York. Is an active member of the American Mathematical Society and the Society of Exploration Geophysicists. He is associated with the Rockefeller Institute for Medical Research, where he is teaching higher mathematics.

Mitchell P. Marcus

B.I.E., Ohio State University, 1948; also attended University of New Hampshire and Princeton University. Joined IBM in 1948 as customer engineer in New York City. Transferred to the Endicott Product Development Laboratory in 1951 and worked on circuit designs for card-punch, converter, and other machines. Was engaged in engineering planning beginning in 1954 and is presently working on theory and applications of switching circuits. Is member of Tau Beta Pi and member of IRE Sub-committee on Digital Computer, Logical and Block Diagram Symbols.

James Overmeyer

B.S. in Physics, Lehigh University, 1949. Joined IBM December, 1954. Presently engaged in microwave resonance studies of ferrimagnetic solids at Poughkeepsie Research Laboratory. Is a member of the American Physical Society and Phi Beta Kappa.

W. Wesley Peterson

A.B., 1948; B.S.E., 1949; M.S.E., 1950; Ph.D., 1954; University of Michigan. Joined IBM Poughkeepsie Laboratory in 1954, where he worked in the 705 Planning Department and the Information Research Department. Since September 1956 he has been at the University of Florida, where he is Associate Professor of Electrical Engineering. He is a member of the IRE, AIEE, American Mathematical Society and Sigma Xi.

Peter J. Price

Studied physics at Oxford and Cambridge Universities, obtaining a Ph.D. in Theoretical Physics from the latter in 1951. Subsequently research assistant to the late Fritz London at Duke University, and a member of the Institute for Advanced Study at Princeton, before joining IBM in 1953. Since then he has been a member of the physics group of Watson Research Laboratory at Columbia University. His principal field of research is solid-state physics.

Michael O. Rabin

M.Sc. in Mathematics and Physics, Hebrew University in Jerusalem, 1953. After one year at the University of Pennsylvania he went to Princeton University, where he held appointments as J.S.K. Fellow and Proctor Fellow in Mathematics; Ph.D. in Mathematics, 1956. Subsequently Instructor in Mathematics at Princeton University and then member of the Institute for Advanced Study in Princeton. Worked at IBM Research Center, Yorktown Heights, in 1957. Fields of interest and research are mathematical logic and algebra. He is currently Assistant Professor of Mathematics at Hebrew University and member of the American Mathematical Society and the Association for Symbolic Logic.

Morton D. Reeber

A.B. in Physics, Columbia College and Columbia University, June 1953. At Radiation Laboratory, Columbia University, 1956-1957. Joined IBM July, 1957 in the Cryogenics Department at the Poughkeepsie Research Center and worked on intermediate-state phenomena. Is currently working in the Cryogenics Department on alloy systems.

Gerald B. Rosenberger

B.E.E., 1954, Georgia Institute of Technology. Joined IBM Military Products Division Laboratory in Poughkeepsie in 1954. Worked on the development of the SAGE Computer Power Control System and later joined the Central Computer Logic Group. Is presently work-

ing in the Military Products Division Cryogenic Group at Kingston, N. Y. He is a member of Tau Beta Pi and Eta Kappa Nu.

Dana Scott

A.B., University of California at Berkeley, 1954; Ph.D., Princeton University, 1958. Worked at IBM during the summer of 1957 at the Research Center, Yorktown Heights, N. Y. Had been employed by Shell Development Company, Emeryville, California during the summer of 1954 in the Mathematics Division. Was instructor at Princeton University from 1955-1958. Bell Telephone Fellow, 1956-1957. Is now instructor in Mathematics Department at the University of Chicago. Fields of research: set theory and mathematical logic. Member of American Mathematical Society, Association for Symbolic Logic and SIAM. Honorary societies: Phi Beta Kappa and Sigma Xi.

John C. Shepherdson

B.A., Cambridge University, 1946. Assistant in Aerodynamics and Mathematics Departments of the National Physical Laboratory, Teddington, England from January to July, 1946. Assistant Lecturer, Lecturer and Reader in Mathematics at the University at Bristol, England from July, 1946 to the present. On leave of absence at the Institute of Advanced Study, Princeton from 1953-1954 and as visiting Associate Professor of Mathematics at the University of California at Berkeley from 1958-1959. Has worked on set theory, algebra, recursive function theory and mathematical logic and is now interested in abstract automata.

William V. Smith

A.B. Physics, 1937; M.A. Physics, 1939; Ph.D. Physics, 1941, Harvard University. Staff Member, MIT Radiation Laboratory, 1942-45, engaged in research on microwave magnetrons. Assistant and Associate Professor of Physics and Associate Director of Microwave Spectroscopy Laboratory, Duke University, 1946-51; Professor of Physics and Department Chairman, University of Delaware, 1951-56. Co-author *Microwave Spectroscopy*, Wiley, 1953. Joined IBM Research Center at Poughkeepsie in June, 1956 in microwave laboratory. Fellow, American Association for Advancement of Science and American Physical Society. Member, Phi Beta Kappa, Sigma Pi Sigma, Sigma Xi, Pi Mu Epsilon, Scientific Panel of Office of Ordnance Research, U. S. Army, 1951, 1954.

Iwao Sugai

B.S. in Engineering, University of California at Los Angeles, 1955; M.S. in Electrical Engineering, California Institute of Technology, 1956. Joined IBM in 1958 at Yorktown Heights Research Center. Was Senior Research Fellow at Microwave Research Institute, Polytechnic Institute of Brooklyn, 1956-1958. Is presently in IBM Graduate Study Program at Polytechnic Institute of Brooklyn. Member of IRE.